



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,798	10/14/2003	Moshe Olim	S01.12-1003/STL 11508.00	4237
27365	7590	05/05/2006	EXAMINER	
SEAGATE TECHNOLOGY LLC C/O WESTMAN CHAMPLIN & KELLY, P.A. SUITE 1400 - INTERNATIONAL CENTRE 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319			WATKO, JULIE ANNE	
			ART UNIT	PAPER NUMBER
			2627	

DATE MAILED: 05/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/684,798

Applicant(s)

OLIM, MOSHE

Examiner

Julie Anne Watko

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 and 16-27 is/are pending in the application.
- 4a) Of the above claim(s) 7,8,20 and 27 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6,16-19 and 21-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>10/14/2003</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election of group I and species A in the reply filed on April 20, 2006, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
2. Claims 1-6, 16-19 and 21-26 are elected. Claims 7-8, 20 and 27 are withdrawn from consideration as non-elected.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-6, 16-19 and 21-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "to increase a surface area on which an adhesive is deposited" in lines 3-4. The term "increase" is a relative term which renders the claim indefinite. The term "increase" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The claim is silent regarding any other slider to which to compare the claimed slider in order to ascertain whether said surface area has been increased. Furthermore, the limitation "adhesive is deposited" is an intended use of the claimed slider. A person of ordinary skill in the art would not be able to determine how much surface area would

Art Unit: 2627

be covered by deposited adhesive by merely inspecting a slider; for example, a large quantity and a small quantity of adhesive might cover more and less surface area, though the sliders were identical.

Independent claims 16 and 21 are similarly indefinite.

Other elected claims are indefinite by virtue of dependency from indefinite claims.

### ***Double Patenting***

5. Applicant is advised that should claims 1, 2 and 7 be found allowable, claims 17, 18 and 20, respectively will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof.

When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

### ***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Regarding the limitation, “to increase a surface area on which an adhesive is deposited” and other limitations involving adhesive: A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure

Art Unit: 2627

is capable of performing the intended use, then it meets the claim. The slider of Karam, II is capable of use with adhesive (see especially col. 9, lines 28-40).

8. Claims 1, 16-17 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Karam, II (US Pat. No. 5381288).

As recited in claims 1 and 16, to the extent understood, Karam, II shows a slider 16 for supporting at least one transducer 18, the slider comprising: a slider body having a bearing surface (undersurface in Fig. 5) and an opposing mounting surface (66, upper surface in Fig. 5).

As recited in claim 16, to the extent understood, in addition to the above teachings, Karam, II shows adhesive control means (including 62 and 64) formed on the mounting surface 66 of the slider body.

As recited in claims 1 and 17, to the extent understood, in addition to the above teachings, Karam, II shows an adhesive control feature (including grooves 62 and 64, for example) formed on the mounting surface 66.

As recited in claim 21, to the extent understood, Karam, II shows a slider body 16 comprising a mounting surface 66 configured for attachment to an actuation device; and an adhesive control feature (including 62 and 64) formed on the mounting surface, wherein the adhesive control feature increases a surface area of the mounting surface.

9. Claims 1-4, 16-18, 21-23 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Uemura et al (US Pat. No. 5223997) (US Pat. No. 5644450).

As recited in claims 1 and 16, to the extent understood, Uemura et al show a slider (including 1 and 2) for supporting at least one transducer (including 2), the slider comprising: a

Art Unit: 2627

slider body 1 having a bearing surface 3 and an opposing mounting surface (lower surface in Figs. 2a-2b).

As recited in claim 16, to the extent understood, in addition to the above teachings, Uemura et al show adhesive control means (including 7) formed on the mounting surface of the slider body

As recited in claims 1 and 17, to the extent understood, in addition to the above teachings, Uemura et al show an adhesive control feature (including 7) formed on the mounting surface.

As recited in claim 21, to the extent understood, Uemura et al show a slider body 1 comprising a mounting surface (lower surface in Figs. 2a-2b, for example) configured for attachment to an actuation device (including 5 and 6; see especially Fig. 1); and an adhesive control feature (including 7) formed on the mounting surface, wherein the adhesive control feature increases a surface area of the mounting surface.

As recited in claims 2, 18 and 22, Uemura et al show that the adhesive control feature 7 comprises at least one reservoir formed on the mounting surface of the slider body, each reservoir having a bottom surface (see upper part of 7 in Fig. 2b) and side surfaces (see side parts of 7 in Fig. 2b).

As recited in claim 3, Uemura et al show that the at least one reservoir is configured to receive at least a portion 9 of the deposited adhesive, thereby effectively reducing a size of the adhesive deposited on the slider body.

As recited in claims 4 and 23, Uemura et al show that the at least one reservoir comprises an elongated channel 7 (see Fig. 3).

As recited in claim 26, Uemura et al show that a remaining portion (other than 9) of the adhesive 8 forms across a portion (right portion in Figs. 2a and 2b) of the mounting surface.

***Allowable Subject Matter***

10. Claims 5-6, 19 and 24-25 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

***Conclusion***

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Handa (US Pat. No. 5644450) shows a magnetic head slider having a pillar 130 and adhesive 60. Walter et al (US PAP No. 20050157425 A1) show a head gimbal assembly using slider and gimbal features; however, the reference was filed after Applicant's filing date.

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie Anne Watko whose telephone number is (571) 272-7597. The examiner can normally be reached on T11A-5PW3P-9PTh11:30A-10PF10A-8:30PSatNoon-8:30P.

Art Unit: 2627

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne D. Bost (new art unit 2627) can be reached on (571) 272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Julie Anne Watko  
Primary Examiner  
Art Unit 2627

May 1, 2006  
JAW

A handwritten signature in black ink, appearing to read 'Julie Anne Watko', with a stylized flourish at the end.